



Safety Data Sheet

Infosafe No™ 3NUIW Issue Date : October 2013 ISSUED by CRPCARE

Product Name **BATTALION C Flowable Seed Treatment**

Not classified as hazardous

1. Identification

GHS Product Identifier BATTALION C Flowable Seed Treatment

Product Code 5735

Product Type Group C Fungicide
Group 3 A Insecticide

Company Name Crop Care Australasia Pty Ltd (ABN 53 061 362 347)

Address Unit 15/16 Metroplex Avenue Murarrie
Queensland 4172 Australia

Telephone/Fax Number Tel: +61 7 3909 2000
Fax: +61 7 3909 2010

Emergency phone number 1800 033 498 (24hr Australia)

Recommended use of the chemical and restrictions on use A flowable seed treatment for control of bunt, flag smut and loose smut of wheat and suppression of seedling stripe rust and speckled leaf blotch. For control of covered smut, loose smut and powdery mildew of barley and suppression of leaf scald. For control of loose and covered smut of oats and for protection against insect pests of stored grain.

Other Information This Safety Data Sheet describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

General If medical advice is needed, have product container or label at hand.

Precautionary Statement (s) Keep out of reach of children.
Read label before use.

Other Information Poisons Schedule S5
Not classified as hazardous under the GHS criteria.

3. Composition/information on ingredients

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Triadimenol	55219-65-3	150 g/L
	Cypermethrin	52315-07-8	4 g/L
	Other ingredients (considered non-hazardous)		10-30 %
	Water		Balance

4. First-aid measures

Inhalation Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

Ingestion Rinse mouth and then drink plenty of water.
Do not give anything by mouth to a semi-conscious or unconscious person.
If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Skin Remove contaminated clothing and launder before re-use.
Wash affected areas thoroughly with soap and water.

Eye contact If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
Seek medical advice if irritation develops or persists.

First Aid Facilities If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.

Advice to Doctor Treat symptomatically.

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5. Fire-fighting measures

Suitable extinguishing media	If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.
Hazards from Combustion	Non-combustible. If involved in a fire, the dehydrated components may emit hydrogen fluoride, hydrogen chloride and oxides of nitrogen.
Special Protective Equipment for fire fighters	Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.
Specific hazards arising from the chemical	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. Accidental release measures

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8. If product has dried out and the possibility of dust generation exists, wear a suitable respirator.
Environmental Precautions	Prevent from entering drains, waterways or sewers. Use earthen bunds or absorbent bunding to prevent spreading of spillage.

7. Handling and storage

Precautions for Safe Handling	Seed treated with this product must not be used for animal or human consumption or be allowed to contaminate seed intended for animal or human consumption.
Conditions for safe storage, including any incompatibilities	Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked enclosure. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. Treated seed, when stored, should be kept apart from other seed. The containers should be clearly marked to indicate the contents have been treated with this product.
Other Information	Always read the label and any attached leaflet before use.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure standards have been set for this product or the active ingredients.
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.
Hygiene Measures	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.
Requirements Concerning Special Training	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. Physical and chemical properties

Form	Liquid
Appearance	Blue Liquid
Solubility in Water	Disperses in water.

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Specific Gravity	1.08
pH	3.0
Vapour Pressure	0.0006 mPa for Triadimenol; 0.00023 mPa for cypermethrin.
Partition Coefficient: n-octanol/water	Kow Log P is 3.2 for triadimenol, 5.3 for cypermethrin
Flammability	Non combustible material.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. Toxicological Information

Acute Toxicity - Oral	LD50 (rat) 579 - 5000 mg/kg for triadimenol (varies with isomer composition) LD50 (rat) 250 - 4150 mg/kg for cypermethrin
Acute Toxicity - Dermal	LD50 (rat) >5000 mg/kg for both triadimenol and cypermethrin
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >0.95 mg/l for both triadimenol and cypermethrin
Ingestion	Possible symptoms of exposure include: nausea, vomiting and gastrointestinal discomfort and diarrhoea.
Inhalation	Not a likely route of exposure when handling the concentrate.
Skin	May irritate the skin.
Eye	May irritate the eyes.
Skin Sensitisation	Skin contact may produce skin sensations such as numbing, burning and tingling. These sensations are reversible and usually subside within 12 hours.
Carcinogenicity	Data indicates no carcinogenic effects.
Reproductive Toxicity	Data indicates no reproductive effects.
Chronic Effects	Evidence from animal studies indicate that repeated or prolonged exposure to triadimenol can result in neurotoxic behavioural effects similar to caffeine. In a medical survey spanning more than 10 years, no substance related effects were observed in persons producing and formulating triadimenol.
Mutagenicity	Data indicates no mutagenic effects.
Other Information	The Australian Acceptable Daily Intake (ADI) for triadimenol for a human is 0.06 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 6.25 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2013). ADI for cypermethrin is 0.05 mg/kg/day, NOEL 5 mg/kg/day.

12. Ecological information

Persistence and degradability	Average field half life of triadimenol is 250 days. Average field half life of cypermethrin is 60 days. The product is applied to seed for sowing. This use pattern restricts movement of active ingredients into the environment.
Known Harmful Effects on the Environment	Harmful to fish and other aquatic organisms.
Other Precautions	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product. Do not feed treated seed, or otherwise expose, to wild and domestic birds.
Environmental Protection	Marine pollutant.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is 21.3 mg/l for triadimenol

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Acute Toxicity - Daphnia	LC50 (96hr) for rainbow trout is 0.00069 mg/l for cypermethrin EC50 (48hr) for daphnia magna is 51 mg/l for triadimenol.
Acute Toxicity - Algae	EC50 (48hr) for daphnia magna is 0.00015 mg/l for cypermethrin. EC50 for algae is 3.7 mg/l for triadimenol EC50 for algae is 0.1 mg/l for cypermethrin
Acute Toxicity - Other Organisms	The following data is for the ingredient, cypermethrin. Bees: Toxic to bees. LD50 0.02 µg/bee.

13. Disposal considerations

Product Disposal	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®). Seed treated with this product must not be used for human or animal consumption or be allowed to contaminate seed intended for human or animal consumption. Seed should not be left exposed on the ground (particularly during sowing). Destroy treated seed not intended for sowing.
Container Disposal	Do not use this container for any other purpose. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

14. Transport information

Storage and Transport	Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.
UN Number (Sea Transport)	3082
IMO Class/Packing Group	Class 9
IMO Marine Pollutant	Marine Pollutant
IMO Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains cypermethrin)

15. Regulatory information

Poisons Schedule	S5
Other Information	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 62562.

16. Other Information

Date of preparation or last revision of SDS	Revised 29/10/2013. This SDS replaces document dated October 2008.
Literature References	JMPR review 2004
Contact Person/Point	Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000 After Hours: Shift Supervisor Phone: 1800 033 498



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Revisions Highlighted The SDS was reviewed to include GHS requirements.
...End Of MSDS...

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